COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY

An International Journal

EDITOR: G. A. KERKUT (*Southampton*)

List of Contents and Author Index

Volume 103, Part C, 1992

PERGAMON PRESS

OXFORD · NEW YORK · SEOUL · TOKYO

Comparative Biochemistry and Physiology

Executive Editor

Professor G. A. KERKUT, Department of Physiology and Biochemistry, University of Southampton, Southampton SO9 3TU, England. Tel.: (0703) 594341; Fax: (0703) 594319.

Assistant Editor

Professor R. J. WALKER, Department of Physiology and Biochemistry, University of Southampton, Southampton SO9 3TU, England. Tel.: (0703) 594341; Fax: (0703) 594319.

Members of the Honorary Editorial Advisory Board

H. L. ATWOOD (Toronto)
H. BRETTING (Hamburg)
T. BRITTAIN (Auckland)
E. FLOREY (Konstanz)
M. J. GARSON (Queensland)
M. J. GREENBERG (St Augustine)
T. T. HERSKOVITS (New York)
H. HUDDART (Lancaster)
L. G. MAGAZANIK (Leningrad)
C. P. MAGNUM (Williamsburg)
T. A. MCKEAN (Idaho)
D. NASSEL (Stockholm)
T. PIEK (Amsterdam)
E. SKADHAUGE (Frederiksberg)
H. TAKEUCHI (Gifu)
E. W. TAYLOR (Birmingham)
P. VANNI (Florence)
D. A. YORK (Baton Rouge)
P. F. ZAGALSKY (London)

Publishing, Subscription and Advertising Offices: *Pergamon Press Ltd, Headington Hill Hall, Oxford OX*3 0*BW, England* (*Tel.:* 0865 794141; *Fax:* 0865 60285).

North America: *Pergamon Press Inc.*, 660 *White Plains Road, Tarrytown, NY* 10591-5153, *U.S.A.*

Subscription Rates

Annual Institutional Subscription Rate (1993): Part A, Comparative Physiology £1102.00 (U.S.$2094.00); Part B, Comparative Biochemistry £1144.00 (U.S.$2174.00); Part C, Comparative Pharmacology and Toxicology £864.00 (U.S.$1642.00). Combined Subscription, £2875.00 (U.S.$5463.00). Sterling prices are definitive. U.S. dollar prices are quoted for convenience only, and are subject to exchange rate fluctuation. Prices include postage and insurance and are subject to change without notice.

Parts A and B published monthly: Three volumes of each part per year, four issues per volume (Part A—1st of the month; Part B—15th of the month). Part C published monthly except in April, August and December: Three volumes per year, three issues per volume (commencing Vol. 98, No. 1, 1991).

Back Issues

Back issues of all previously published volumes, in both hard copy and microform, are available direct from Pergamon Press offices.

Copyright © 1992 Pergamon Press Ltd

Second-class postage paid at RAHWAY NJ. Postmaster send address corrections to Comparative Biochemistry and Physiology Part C, c/o Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

CONTENTS OF VOLUME 103

Vol. 103C, *No.* 1

Mini-Reviews

H. Takeuchi 1 Sensitivities of *Achatina* giant neurones to putative amino acid neurotransmitters

H. Shinozaki and M. Ishida 13 A metabotropic L-glutamate receptor agonist: pharmacological difference between rat central neurones and crayfish neuromuscular junctions

General Papers

P. N. R. Usherwood and E. A. Barnard 19 Evidence for hybrid NMDA/kainate receptors from protein reconstitution studies and expression of vertebrate CNS RNAs in *Xenopus* oocytes

J. Kopecký, V. Maťha and A. Jegorov 23 The inhibitory effect of destruxin A on the replication of arboviruses in *Aedes albopictus* C6/36 cell line

N. B. Pivovarova, K. Y. H. Lagerspetz and I. A. Skulskii 27 Effect of cadmium on ciliary and ATPase activity in the gills of freshwater mussel *Anodonta cygnea*

A. Krasowska and T. Włostowski 31 The effect of high fluoride intake on tissue trace elements and histology of testicular tubules in the rat

T. Włostowski 35 On metallothionein, cadmium, copper and zinc relationships in the liver and kidney of adult rats

X. R. Michel, P. M. Cassand, D. G. Ribera and J.-F. Narbonne 43 Metabolism and mutagenic activation of benzo(a)pyrene by subcellular fractions from mussel (*Mytilus galloprovincialis*) digestive gland and sea bass (*Discenthrarcus labrax*) liver

P. Lopez, L. A. Garcia-Pardo, J. Gonzalez-Gallego, P. Gonzalez and M. J. Tuñon 53 Alterations induced by fascioliasis and cirrhosis on the biliary excretion of cefmetazole in Wistar rats

H. Straub, R. Köhling and E.-J. Speckmann 57 Low magnesium induced epileptiform discharges in neocortical slices (guinea pig): increased antiepileptic efficacy of organic calcium antagonist verapamil with elevation of extracellular K^+ concentration

G. N. Andrianov, F. Bretschneider and R. C. Peters 65 The actions of L-glutamate and its agonists on the ampullary electroreceptor organs of the catfish *Ictalurus nebulosus*

K.-H. Tempel, A. Ignatius and I. Stammberger 73 A short-term test for nucleotoxicity that uses chick embryo cells treated *in vitro* and *in vivo*—physico-chemical and biochemical investigations

M. J. Bebianno and W. J. Langston 79 Cadmium induction of metallothionein synthesis in *Mytilus galloprovincialis*

F. Martínez 87 The antifertility agent, gossypol, changes several mitochondrial functions in the presence of Mg^{2+}

M. Gauthier, L. P. Belzunces, A. Zaoujal, M. E. Colin and D. Richard 91 Modulatory effect of learning and memory on honey bee brain acetylcholinesterase activity

J. Aldunate, L. Traipe, P. Spencer, A. Morello and Y. Repetto 97 Effects of hydroquinones on intact *Trypanosoma cruzi* epimastigotes

M. T. Musmeci, A. Santulli and V. D'Amelio	101	Oxidized respiratory molecules induced *in vivo* by nitrite in *Pontodrilus littoralis* (Oligochaeta)
F. Goudey-Perriere, B. Fokam Simo, J. Maccario, C. Perriere and P. Gayral	105	Effects of ecdysteroids on reproductive physiology of *Nippostrongylus brasiliensis* (Nematoda) *in vivo*
R. G. H. Downer and L. Hiripi	111	^{3}H-imipramine binding in membrane preparations from brains of insects (*Periplaneta americana*, *Locusta migratoria*) and mollusc (*Helix pomatia*)
B. T. Marden, J. Fowles and A. Fairbrother	115	[^{3}H]N-methylscopolamine binding to heart atrium and four brain regions from the mallard (*Anas platyrhynchos*)
M. García-Franco	121	Anaesthetics for the squid *Sepioteuthis sepioidea* (Mollusca: Cephalopoda)
Dong Wook Kim, Du Youn Kim, Joonho Choe, KeWon Kang and Cheol O Joe	125	Comparative analysis of inositol phospholipid metabolism in viral and chemical transformation of mammalian cells
T. deVos and T. A. Dick	129	Characterization of cholinesterases from the parasitic nematode *Trichinella spiralis*
A. Fónagy, L. Schoofs, P. Proost, J. Van Damme and A. De Loof	135	Isolation and primary structure of two sulfakinin-like peptides from the fleshfly, *Neobellieria bullata*
H. Zaporowska and W. Wasilewski	143	Combined effect of vanadium and zinc on certain selected haematological indices in rats
C. L. Miranda, M. C. Henderson, J.-L. Wang, H. S. Nakaue and D. R. Buhler	149	Comparative effects of the polychlorinated biphenyl mixture, Aroclor 1242, on porphyrin and xenobiotic metabolism in kidney of Japanese quail and rat
C. L. Miranda, M. C. Henderson, J.-L. Wang, Hyeon-Soog Chang, J. D. Hendricks and D. R. Buhler	153	Differential effects of 3,4,5,3′,4′,5′-hexachlorobiphenyl (HCB) on interrenal steroidogenesis in male and female rainbow trout *Oncorhynchus mykiss*
K. Edwards, S. H. Grossman and J. M. Lawrence	159	Characterization and inhibition kinetics of cadmium on cytoplasmic malate dehydrogenase from the pyloric caeca of *Luidia clathrata* (Say) (Echinodermata: Asteroidea)
T. Mustafa, C. Agnisola and B. Tota	163	Myocardial and coronary effects of exogenous arachidonic acid on the isolated and perfused heart preparation and its metabolism in the heart of trout (*Oncorhynchus mykiss*)
P. S. Leung, C. Shaw, C. F. Johnston and G. B. Irvine	169	Immunochemical characterisation of tachykinin immunoreactivity in the nervous system of the garden snail, *Helix aspersa*
C. L. Barton, C. Shaw, D. W. Halton, C. F. Johnston and K. D. Buchanan	175	Distribution and characterisation of neuropeptide Y immunoreactivity in the brain and gastrointestinal tract of the rainbow trout, *Oncorhynchus mykiss*
Wenyu Lin, M. A. Rice and P. K. Chien	181	The effects of copper, cadmium and zinc on particle filtration and uptake of glycine in the Pacific oyster *Crassostrea gigas*
U. Musshoff, M. Madeja, P. Bloms and E.-J. Speckmann	189	Time course of glutamate receptor expression in individual oocytes of *Xenopus laevis* after injection of rat brain RNA
B. Winding, H. Winding and N. Bindslev	195	Second messengers and ion channels in acetylcholine-induced chloride secretion in hen trachea
J. Nourooz-Zadeh, B. S. Winder, E. C. Dietze, C. S. Giometti, S. L. Tollaksen and B. D. Hammock	207	Biochemical characterization of a variant form of cytosolic epoxide hydrolase induced by parental exposure to *N*-ethyl-*N*-nitrosourea

F. Goudey-Perrière, H. Barreteau, C. Jacquot, P. Gayral, C. Perrière and P. Brousse-Gaury 215 Influence of crowding on biogenic amine levels in the nervous system of the female cockroach *Blaberus craniifer* Burm. (Dictyoptera, Blaberidae)

B. Ozretić and M. Krajnović-Ozretić 221 Esterase heterogeneity in mussel *Mytilus galloprovincialis*: effects of organophosphate and carbamate pesticides *in vitro*

A. Jegorov, V. Maťha and H. Hradec 227 Detoxification of destruxins in *Galleria mellonella* L. larvae

T. M. John, Z. Shen and J. C. George 231 Physiological responses of naloxone-treated pigeons to changes in ambient temperature

K. Gromysz-Kałkowska and E. Szubartowska 237 Stilbestrol as a factor modifying the toxicity of Ekatin for the Pharaoh quail (*Coturnix coturnix Pharaoh*)—II. Mature birds

Vol. 103C, *No.* 2

Mini Reviews

R. M. Glantz and C. Pfeiffer-Linn 243 NMDA receptors in invertebrates

W. A. Ritschel, N. N. Vachharajani, R. D. Johnson and A. S. Hussain 249 The allometric approach for interspecies scaling of pharmacokinetic parameters

P. Romandini, L. Tallandini, M. Beltramini, B. Salvato, M. Manzano, M. de Bertoldi and G. P. Rocco 255 Effects of copper and cadmium on growth, superoxide dismutase and catalase activities in different yeast strains

H. Nishi and R. Fujii 263 Novel receptors for melatonin that mediate pigment dispersion are present in some melanophores of the pencil fish (*Nannostomus*)

Y. Fujita and H. Sugiya 269 Sphingosine inhibits muscarinic cholinergic receptor binding in rat parotid acinar cells

R. Batzri-Izraeli, Z. Wollberg and R. Dmi'el 273 Equithesin: a hibernation-inducing drug?

Y. Iwabuchi and T. Masuhara 277 Effects of cholinergic and adrenergic agonists on the secretion of fluid and protein by submandibular glands of the hamster and the rat

T. Włostowski 285 Postnatal changes in subcellular distribution of copper, zinc and metallothionein in the liver of bank vole (*Clethrionomys glareolus*): a possible involvement of metallothionein and copper in cell proliferation

O. Sacchi, R. Bardoni, P. C. Magherini and O. Belluzzi 291 Electrophysiological effects of a neurotoxin extracted from the skin of the Australian frog *Pseudophryne coriacea*

N.-H. Tan and G. Ponnudurai 299 Comparative study of the enzymatic, hemorrhagic, procoagulant and anticoagulant activities of some animal venoms

H. A. Kadir and C. O. Knowles 303 Stimulation of diamondback moth (*Plutella xylostella*) adenylate cyclase activity by a carbodiimide

M. Aomine and K. Isatake 309 Effects of amiodarone on triggered activity induced by overdrive stimulation in Ca^{2+} overloaded ventricular muscle from guinea pig

S. J. Wood, R. H. Osborne, S. E. Banner and K. J. Cattell 315 Effects of FMRFamide-related peptides and morphine on the isolated foregut of the locust *Schistocerca gregaria*

A. Hirashima, Y. Yoshii and M. Eto 321 The agonist action of substituted phenylethanolamines on octopamine receptors in cockroach ventral nerve cords

M. van de Venter, D. Litthauer and W. Oelofsen 327 The effect of high concentrations of α_2-adrenoceptor antagonists on the lipolytic responsiveness of isolated human adipocytes

P. Sivasubramanian 333 FMRFamide-like immunoreactivity in the stomatogastric nervous system innervating the gut of the fly, *Sarcophaga bullata*

J. P. Truchot and F. Boitel 339 *In vitro* and *in vivo* effects of copper on haemocyanin-O_2 binding in the shore crab, *Carcinus maenas*

R. W. Lea, T. R. Hall and P. J. Sharp 345 Hypothalamic monoamine turnover in ring doves (*Streptopelia risoria*), courting, incubating and brooding young

E. Sancho, M. D. Ferrando, M. Gamon and E. Andreu-Moliner 351 Organophosphorus diazinon induced toxicity in the fish *Anguilla anguilla* L.

A. Fernández-Casalderrey, M. D. Ferrando and E. Andreu-Moliner 357 Filtration and ingestion rates of *Brachionus calyciflorus* after exposure to endosulfan and diazinon

H. Nagaishi, N. Oshima and R. Fujii 363 Effects of atropine on the melanophores and light-reflecting chromatophores of some teleost fishes

M. P. Cajaraville, J. A. Uranga and E. Angulo 369 Comparative effects of the water accommodated fraction of three oils on mussels—3. Quantitative histochemistry of enzymes related to the detoxication metabolism

N. E. Lamash and Yu. S. Khotimchenko 379 Properties of the adenylate cyclase in the oocytes of starfish *Asterias amurensis*

F. Punzo and A. Kirk 383 Detoxifying enzymes and the effects of temperature on the toxicity of malathion to *Oncopeltus fasciatus* (Heteroptera) and *Tenebrio molitor* (Coleoptera)

C. Lippe, V. Bellantuono, G. Valenti and C. Ardizzone 387 The nature of Cl^- secretion, induced by carbaryl, across the isolated skin of *Rana esculenta*

S. Namoto 391 Effects of purine compounds and forskolin on melanophores of the medaka *Oryzias latipes*: evidence for an A_2-adenosine receptor

P. M. Jakobs and R. Schipp 399 The electrocardiogram of *Sepia officinalis* L. (Cephalopoda: Coleoida) and its modulation by neuropeptides of the FMRF-amide group

A. Garateix, M. Castellanos, J. L. Hernández, R. Más, R. Menéndez, L. Romero and M. Chávez 403 Effects of a high molecular weight toxin from the sea anemone *Condylactis gigantea* on cholinergic responses

M. B. Veldhuizen-Tsoerkan, C. A. van der Mast and D. A. Holwerda 411 Cadmium-induced changes in macromolecular synthesis at transcriptional and translational level in gill tissue of sea mussels, *Mytilus edulis* L.

V. P. Chelomin and N. N. Belcheva 419 The effect of heavy metals on processes of lipid peroxidation in microsomal membranes from the hepatopancreas of the bivalve mollusc *Mizuhopecten yessoensis*

***Vol.* 103C, *No.* 3**

Mini Review

G. Bicker 423 Taurine in the insect central nervous system

General Papers

D. B. Sattelle 429 Receptors for L-glutamate and GABA in the nervous system of an insect (*Periplaneta americana*)

R. B. Philp and P. Arora	439	Effects of barbiturate anesthetics on calcium-induced marine sponge cell aggregation
S. Pedder, R. Sharma, Y. Muneoka and R. J. Walker	441	An initial screen of a series of neuroactive peptides for activity on identified central neurones of *Helix aspersa*
K. A. Cockell, J. W. Hilton and W. J. Bettger	453	Hepatobiliary and hematological effects of dietary disodium arsenate heptahydrate in juvenile rainbow trout (*Oncorhynchus mykiss*)
M. G. MacLeod and A. Watson	459	Fenfluramine-induced thermogenesis in adult domestic fowl (*Gallus domesticus*): elimination by propranolol, a beta-blocker
G. H. Little and A. Flores	463	Inhibition of programmed cell death by cyclosporin
A. Okina, K. Abe, H. Inuzuka, T. Yano, T. Okina, T. Nakashima and T. Nishiura	469	The effects of *m*-octopamine on salivary flow rates and protein secretion by rat submandibular glands
Jiann-Chu Chen and Sheue-Feng Chen	477	Accumulation of nitrite in the haemolymph of *Penaeus monodon* exposed to ambient nitrite
K. W. Chiu and Y. C. Lee	483	Cardiac activity of some peptide hormones in the frog, *Rana tigrina*
N. Takeda	489	Biogenic monoamine system detected simultaneously in the neural complex of the ascidian, *Ciona intestinalis*
C. J. Church and C. O. Knowles	495	Saxitoxin binding to neural membranes from pyrethroid susceptible and resistant tobacco budworm moths *Heliothis virescens*
S. Edmands and P. H. Yancey	499	Effects on rat renal osmolytes of extended treatment with an aldose reductase inhibitor
M. E. Ferretti, M. C. Pareschi, A. L. Campi, R. Cavallaro, M. Buzzi and C. Biondi	503	Adenylate cyclase from *Hirudo medicinalis* segmental ganglia: modulation by physiological and non-physiological agents
N. Takeda	511	Biogenic monoamine levels in the central nervous system of the sea hare, *Aplysia kurodai*
D. Detaille, G. Trausch and P. Devos	521	Dopamine as a modulator of ionic transport and glycolytic fluxes in the gills of the Chinese crab, *Eriocheir sinensis*
S. J. Wood, R. H. Osborne, S. Gomez and P. J. Jewess	527	Pharmacology of the isolated foregut of the locust *Schistocerca gregaria*—IV. Characterization of a muscarinic acetylcholine receptor
G. E. Knight, C. H. V. Hoyle and G. Burnstock	535	Responses of the rectum and oesophagus of the snail *Helix aspersa* to purine nucleotides and nucleosides
H. J. Mersmann	541	Adenosine–theophylline interactions on the lipolytic response to beta-adrenergic agonists in porcine adipose tissue
A. M. Brown, C. R. McCrohan and P. Pamplin	549	Inhibition of slow TTX-insensitive inward current by the anticonvulsant carbamazepine in an identified neuron of *Lymnaea stagnalis*
E. Yanev, T. Markovska, A. Momchilova, R. Pankov, T. Sedloev and K. Koumanov	553	Alterations in rat alveolar surfactant system induced by treatment with carbicron (O-[(2-butenoic acid)-N,N-dimethyl-amide- 3-YL] O,O-dimethylphosphate)
O. Souilem, J.-C. Bidon, M. Gogny, M. Blin and A. Jondet	557	Effect of temperature reduction on the reactivity of the mouse vas deferens to adrenergic drugs
D. D. Pavlov, G. M. Chuiko, Y. V. Gerassimov and V. D. Tonkopiy	563	Feeding behavior and brain acetylcholinesterase activity in bream (*Abramis brama L.*) as affected by DDVP, an organophosphorus insecticide

P. Silva, F. H. Epstein and R. J. Solomon	569	The effect of mercury on chloride secretion in the shark *Squalus acanthias*) rectal gland
A. W. Brooks, K. N. White and S. E. R. Bailey	577	Accumulation and excretion of aluminium and iron by the terrestrial snail *Helix aspersa*
S. San-Marina and D. McEwen Nicholls	585	Some effects of aluminium on rat brain protein synthesis
E. Gallucci and S. Micelli	593	Potentiation by m-cresol on transepithelial sodium transport across frog skin induced by insulin
O. Nešić and M. Pašić	597	Characteristics of outward current induced by application of dopamine on a snail neuron
A. Yawetz, R. Manelis and L. Fishelson	607	The effects of Aroclor 1254 and petrochemical pollutants on cytochrome P450 from the digestive gland microsomes of four species of Mediterranean molluscs
N. Yamanouye and Z. P. Picarelli	615	Characterization of postjunctional alpha-adrenoceptors in the isolated aorta of the snake *Bothrops jararaca*

Author Index

Abe, K. 469
Agnisola, C. 163
Aldunate, J. 97
Andreu-Moliner, E. 351, 357
Andrianov, G. N. 65
Angulo, E. 369
Aomine, M. 309
Ardizzone, C. 387
Arora, P. 439

Bailey, S. E. R. 577
Banner, S. E. 315
Bardoni, R. 291
Barnard, E. A. 19
Barreteau, H. 215
Barton, C. L. 175
Batzri-Izraeli, R. 273
Bebianno, M. J. 79
Belcheva, N. N. 419
Bellantuono, V. 387
Belluzzi, O. 291
Beltramini, M. 255
Belzunces, L. P. 91
Bertoldi de, M. 255
Bettger, W. J. 453
Bicker, G. 423
Bidon, J.-C. 557
Bindslev, N. 195
Biondi, C. 503
Blin, M. 557
Bloms, P. 189
Boitel, F. 339
Bretschneider, F. 65
Brooks, A. W. 577
Brousse-Gaury, P. 215
Brown, A. M. 549
Buchanan, K. D. 175
Buhler, D. R. 149, 153
Burnstock, G. 535
Buzzi, M. 503

Cajaraville, M. P. 369
Campi, A. L. 503
Cassand, P. M. 43
Castellanos, M. 403
Cattell, K. J. 315
Cavallaro, R. 503
Chávez, M. 403
Chelomin, V. P. 419
Cheol O Joe 125
Chien, P. K. 181
Chiu, K. W. 483
Chuiko, G. M. 563
Church, C. J. 495
Cockell, K. A. 453
Colin, M. E. 91

D'Amelio, V. 101
De Loof, A. 135
de Vos T. 129
Detaille, D. 521
Devos, P. 521
Dick, T. A. 129
Dietze, E. C. 207
Dmi'el, R. 273
Dong Wook Kim 125
Downer, R. G. H. 111
Du Youn Kim 125

Edmands, S. 499
Edwards, K. 159
Epstein, F. H. 569
Eto, M. 321

Fairbrother, A. 115
Fernández-Casalderrey, A. 357
Ferrando, M. D. 351, 357
Ferretti, M. E. 503
Fishelson, L. 607
Flores, A. 463
Fokam Simo, B. 105
Fónagy, A. 135
Fowles, J. 115
Fujii, R. 263, 363
Fujita, Y. 269

Gallucci, E. 593
Gamon, M. 351
Garateix, A. 403
García-Franco, M. 121
Garcia-Pardo, L. A. 53
Gauthier, M. 91
Gayral, P. 105, 215
George, J. C. 231
Gerassimov, Y. V. 563
Giometti, C. S. 207
Glantz, R. M. 243
Gogny, M. 557
Gomez, S. 527
Gonzalez, P. 53
Gonzalez-Gallego, J. 53
Goudey-Perriere, F. 105, 215
Gromysz-Kałkowska, K. 237
Grossman, S. H. 159

Hall, T. R. 345
Halton, D. W. 175
Hammock, B. D. 207
Henderson, M. C. 149, 153
Hendricks, J. D. 153
Hernández, J. L. 403
Hilton, J. W. 453
Hirashima, A. 321
Hiripi, L. 111
Holwerda, D. A. 411
Hoyle, C. H. V. 535
Hradec, H. 227
Hussain, A. S. 249

Hyeon-Soog Chang 153

Ignatius, A. 73
Inuzuka, H. 469
Irvine, G. B. 169
Isatake, K. 309
Ishida, M. 13
Iwabuchi, Y. 277

Jacquot, C. 215
Jakobs, P. M. 399
Jegorov, A. 23, 227
Jewess, P. J. 527
Jiann-Chu Chen 477
John, T. M. 231
Johnson, R. D. 249
Johnston, C. F. 169, 175
Jondet, A. 557
Joonho Choe 125

Kadir, H. A. 303
KeWon Kang 125
Khotimchenko, Yu. S. 379
Kirk, A. 383
Knight, G. E. 535
Knowles, C. O. 303, 495
Köhling, R. 57
Kopecký, J. 23
Koumanov, K. 553
Krajnovic-Ozretić, M. 221
Krasowska, A. 31

Lagerspetz, K. Y. H. 27
Lamash, N. E. 379
Langston, W. J. 69
Lawrence, J. M. 159
Lea, R. W. 345
Lee, Y. C. 483
Leung, P. S. 169
Lippe, C. 387
Litthauer, D. 327
Little, G. H. 463
Lopez, P. 53

Maccario, J. 105
MacLeod, M. G. 459
Madeja, M. 189
Magherini, P. C. 291
Manelis, R. 607
Manzano, M. 255
Marden, B. T. 115
Markovska, T. 553
Martínez, F. 87
Más, R. 403
Mast, C. A. van der 411
Masuhara, T. 277
Matha, V. 23, 227
McCrohan, C. R. 549
McEwen Nicholls, D. 585
Menéndez, R. 403
Mersmann, H. J. 541
Micelli, S. 593
Michel, X. R. 43
Miranda, C. L. 149, 153
Momchilova, A. 553
Morello, A. 97
Muneoka, Y. 441
Musmeci, M. T. 101

Musshoff, U. 189
Mustafa, T. 163

Nagaishi, H. 363
Nakashima, T. 469
Nakaue, H. S. 149
Namoto, S. 391
Narbonne, J.-F. 43
Nešić, O. 597
Nishi, H. 263
Nishiura, T. 469
Nourooz-Zadeh, J. 207

Oelofsen, W. 327
Okina, A. 469
Okina, T. 469
Osborne, R. H. 315, 527
Oshima, N. 363
Ozretić, B. 221

Pamplin, P. 549
Pankov, R. 553
Pareschi, M. C. 503
Pašić, M. 597
Pavlov, D. D. 563
Pedder, S. 441
Perriere, C. 105, 215
Peters, R. C. 65
Pfeiffer-Linn, C. 243
Philp, R. B. 439
Picarelli, Z. P. 615
Pivovarova, N. B. 27
Ponnudurai, G. 299
Proost, P. 135
Punzo, F. 383

Repetto, Y. 97
Ribera, D. G. 43
Rice, M. A. 181
Richard, D. 91
Ritschel, W. A. 249
Rocco, G. P. 255
Romandini, P. 255
Romero, L. 403

Sacchi, O. 291
Salvato, B. 255
San-Marina, S. 585
Sancho, E. 351
Santulli, A. 101
Sattelle, D. B. 429
Schipp, R. 399
Schoofs, L. 135
Sedloev, T. 553
Sharma, R. 441
Sharp, P. J. 345
Shaw, C. 169, 175
Shen, Z. 231
Sheue-Feng Chen 477
Shinozaki, H. 13
Silva, P. 569
Sivasubramanian, P. 333
Skulskii, I. A. 27
Solomon, R. J. 569
Souilem, O. 557
Speckmann, E.-J. 57, 189
Spencer, P. 97
Stammberger, I. 73

Straub, H. 57
Sugiya, H. 269
Szubartowska, E. 237

Takeda, N. 489, 511
Takeuchi, H. 1
Tallandini, L. 255
Tan, N.-H. 299
Tempel, K.-H. 73
Tollaksen, S. L. 207
Tonkopiy, V. D. 563
Tota, B. 163
Traipe, L. 97
Trausch, G. 521
Truchot, J. P. 339
Tuñon, M. J. 53

Uranga, J. A. 369
Usherwood, P. N. R. 19

Vachharajani, N. N. 249
Valenti, G. 387
Van Damme, J. 135
Veldhuizen-Tsoerkan, M. B. 411
Venter, M. van de 327

Walker, R. J. 441
Wang, J.-L. 149, 153
Wasilewski, W. 143
Watson, A. 459
Wenyu Lin 181
White, K. N. 577
Winder, B. S. 207
Winding, B. 195
Winding, H. 195
Włostowski, T. 31, 35, 285
Wollberg, Z. 273
Wood, S. J. 315, 527

Yamanouye, N. 615
Yancey, P. H. 499
Yanev, E. 553
Yano, T. 469
Yawetz, A. 607
Yoshii, Y. 321

Zaoujal, A. 91
Zaporowska, H. 143

Typeset in Great Britain by BPCC Techset Ltd, Exeter. Printed by BPCC Wheatons Ltd, Exeter